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**Patent Abstracts of Japan**

PUBLICATION NUMBER : 56059601
PUBLICATION DATE : 23-05-81

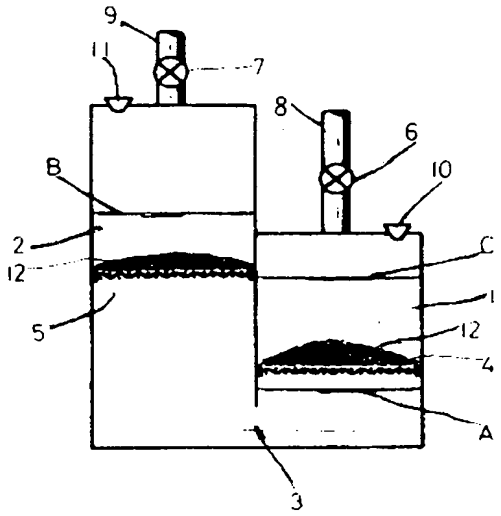
APPLICATION DATE : 14-10-79
APPLICATION NUMBER : 54132121

APPLICANT : SUZUKI MASAHIRO;

INVENTOR : SUZUKI MASAHIRO;

INT.CL. : C01B 3/08

TITLE : HYDROGEN GENERATING APPARATUS




ABSTRACT : PURPOSE: To generate high purity hydrogen safely and stably by allowing a reaction chamber provided with a filter shelf to communicate with a pressure regulating chamber provided with a pressure control mechanism.

CONSTITUTION: Plugs 10, 11 are pulled out to charge Mg 12 for generating hydrogen onto filter shelf 4 of reaction chamber 1 and filter shelf 5 of pressure regulating chamber 2, and plugs 10, 11 are inserted. Seawater or an aqueous neutral salt soln. is filled into chamber 2 from pipe 9, cock 7 is closed, and the water level of chamber 1 is adjusted to position A through communicating part 3. Mg 12 in chamber 2 is reacted with the seawater to generate $H_2$ gas, and the gas is stored in an upper part of chamber 2 to raise water level A of chamber 1 to position C as well as lower the water level of chamber 2 to position B. Mg 12 in chamber 1 is reacted with the seawater to generate $H_2$ gas, and by this pressure level C is lowered and level B is raised. After raising the pressure of $H_2$ gas in chamber 1, cock 6 is opened to take out the $H_2$ gas from pipe 8.



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